

### ショットキーバリアダイオード

### SCHOTTKY BARRIER DIODE

#### ■ 特長 : Features

- 低 $V_F$   
Low  $V_F$
- スイッチングスピードが非常に速い  
Super high speed switching.
- プレーナー技術による高信頼性  
High reliability by planer design.
- 超小形のため5mmピッチ自動挿入可能  
Ultra small package, possible for 5mm pitch automatic insertion.

#### ■ 用途 : Applications

- 高速電カスイッチング  
High speed power switching.

#### ■ 定格と特性 : Maximum Ratings and Characteristics

##### ● 絶対最大定格 : Absolute Maximum Ratings

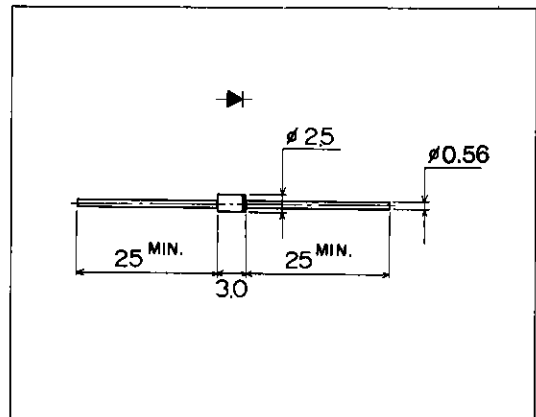
Items	Symbols	Conditions	Ratings	Units
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$		40	V
平均順電流 Average Forward Current	$I_{F(AV)}$	抵抗負荷, $T_a = 60^\circ\text{C}$ Resistive load	0.6	A
サージ電流 Surge Current	$I_{FSM}$	正弦波 10ms Sine wave	25	A
接合温度 Operating Junction Temperature	$T_j$		-40 ~ +125	$^\circ\text{C}$
保存温度 Storage Temperature	$T_{stg}$		-40 ~ +125	$^\circ\text{C}$

##### ● 電気的特性 (特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

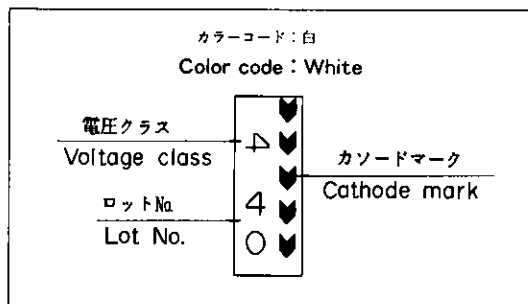
Electrical Characteristics ( $T_a = 25^\circ\text{C}$  Unless otherwise specified)

Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 0.6\text{A}$	0.55	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	1.0	mA

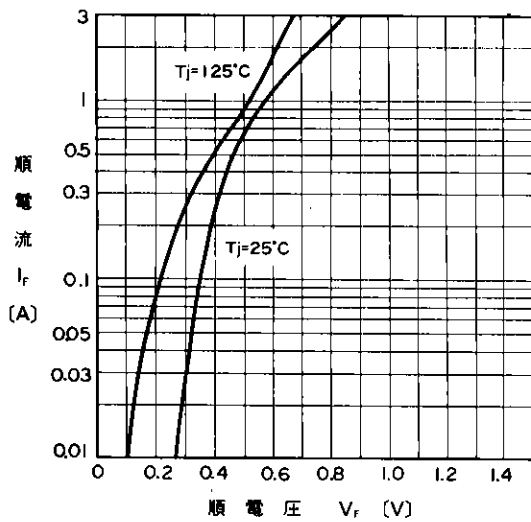
#### ■ 外形寸法 : Outline Drawings



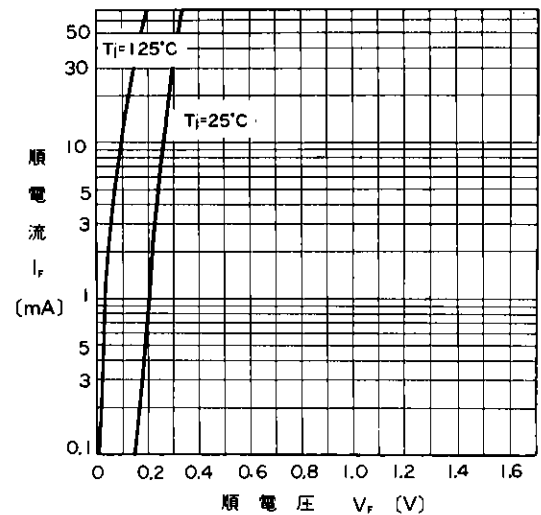
#### ■ 表示 : Marking



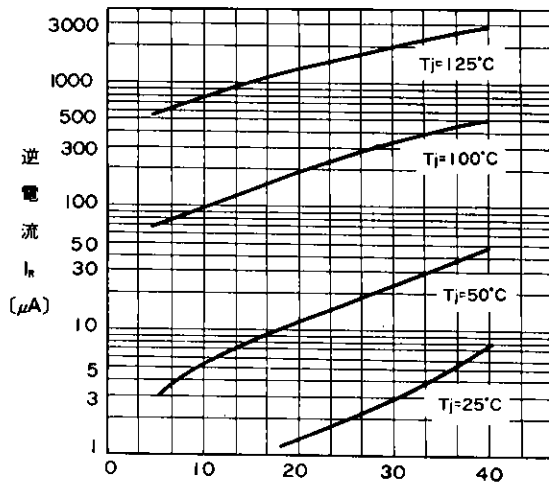
■特性曲線：Characteristics



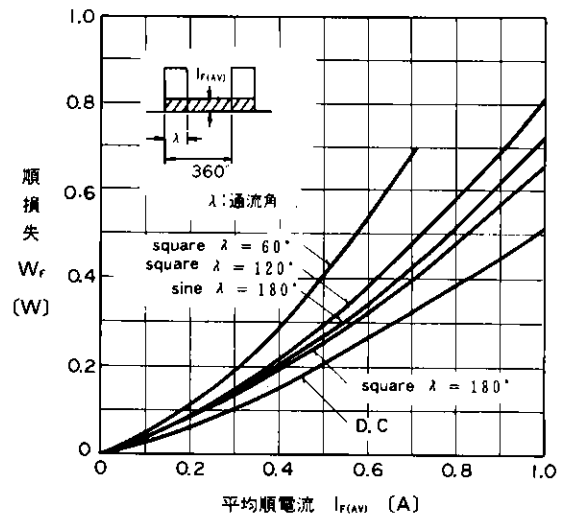
順特性 (代表特性)  
Forward Characteristics



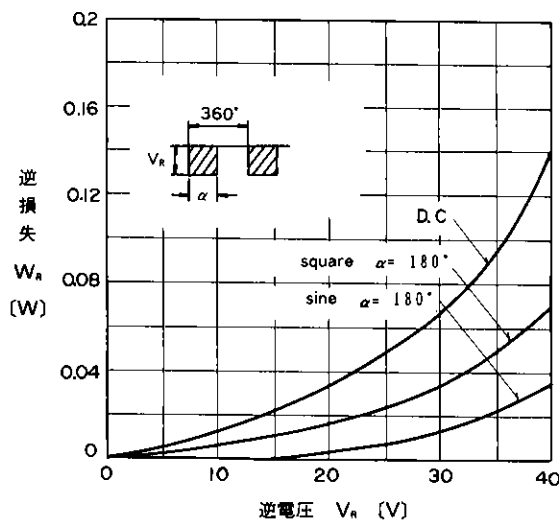
順特性 (代表特性)  
Forward Characteristics



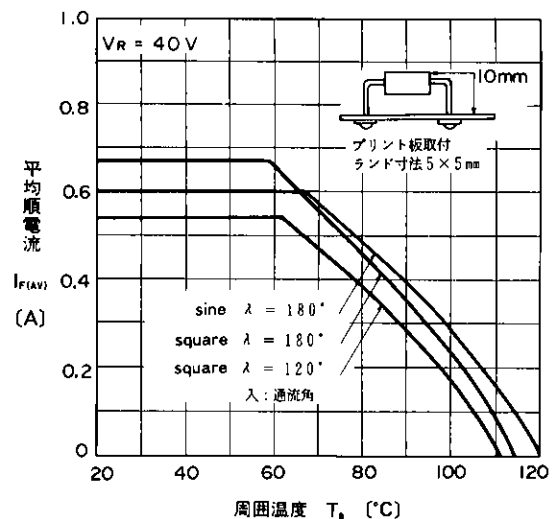
逆特性 (代表特性)  
Reverse Characteristics



順損失特性  
Forward Power Dissipation



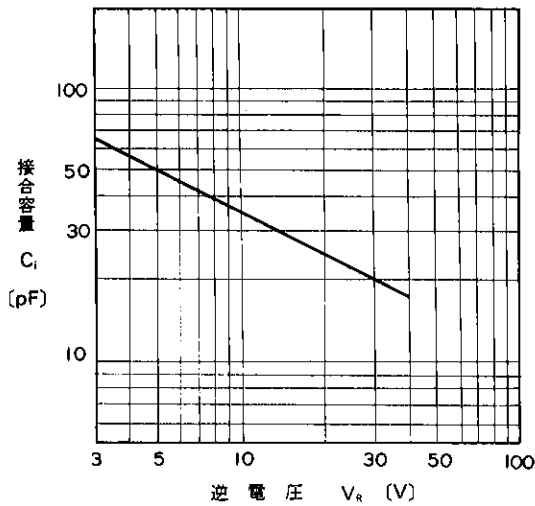
逆損失特性  
Reverse Power Dissipation



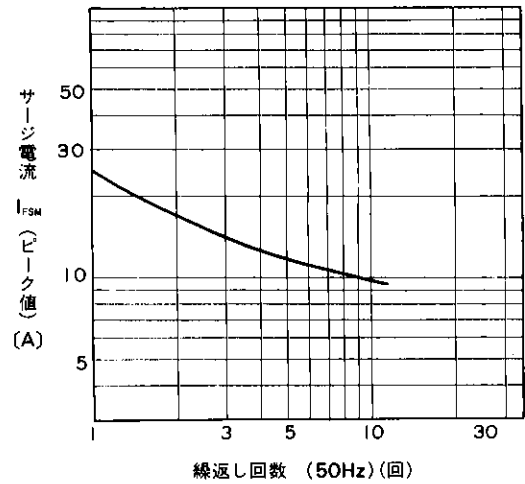
平均順電流—周囲温度特性  
 $I_{F(AV)}-T_a$  Characteristics

A

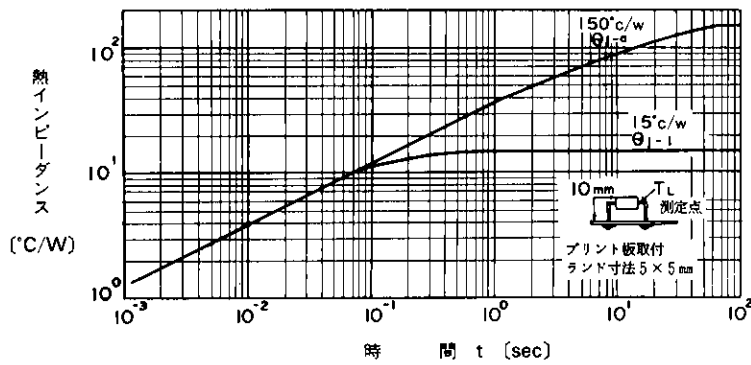
■特性曲線：Characteristics



接合容量特性 (代表特性)  
Junction Capacitance Characteristics



サージ電流耐量  
Surge Capacity



過渡熱インピーダンス  
Transient Thermal Impedance

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